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1 High performance discrete Fourier transforms on graphics processors
Naga K. Govindaraju, Brandon Lloyd, Yuri Dotsenko, Burton Smith, John Manferdelli
November 2008 **SC '08:** Proceedings of the 2008 ACM/IEEE conference on Supercomputing
Publisher: IEEE Press
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We present novel algorithms for computing discrete Fourier transforms with high perfo
hierarchical, mixed radix FFT algorithms for both power-of-two and non-power-of-two
algorithms efficiently exploit ...

2 CoMPSoC: A template for composable and predictable multi-processor system on
Andreas Hansson, Kees Goossens, Marco Bekooij, Jos Huisken
January 2009 **Transactions on Design Automation of Electronic Systems (TODAES)**
Publisher: ACM ◈ Request Permissions
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A growing number of applications, often with firm or soft real-time requirements, are i
on Chip, in the form of either hardware or software intellectual property. The applicatic
run time, creating ...

Keywords: Composable, model of computation, network on chip, predictable, system

3 Circuit emulation services over ethernet-part 1: clock synchronization using timest
James Aweya, Michel Ouellette, Delfin Y. Montuno, Kent Felske
January 2004 **International Journal of Network Management**, Volume 14 Issue 1
Publisher: John Wiley & Sons, Inc.
Full text available: 🗏 Pdf (260.66 KB)   Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Downloads (Overall): 605

Due to Ethernet's ubiquity, simplicity, scalability and cost effectiveness there is signific
Ethernet-based access and transport in the metropolitan network. Many service provid
and are currently establishing ...

4 A dynamically reconfigurable adaptive viterbi decoder
Sriram Swaminathan, Russell Tessier, Dennis Goeckel, Wayne Burleson

February 2002 **FPGA '02:** Proceedings of the 2002 ACM/SIGDA tenth international sympos arrays

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The use of error-correcting codes has proven to be an effective way to overcome data communication channels. Although widely-used, the most popular communications dec algorithm, requires an exponential ...

Keywords: FPGA, Viterbi coding, dynamic reconfiguration

5 Practical experience teaching embedded systems

Carlos Almeida

October 2008 **SIGBED Review** , Volume 5 Issue 3

Publisher: ACM

Full text available: 📄 Pdf (139.91 KB)　　　　　Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 43, Downloads (Overall): 43,

The area of embedded systems and their interconnection is of utmost importance now evolution, and widespread use, of small electronic devices with processing and commu potential for the development ...

Keywords: embedded systems development, embedded systems education

6 Stability analysis of active clock deskewing systems using a control theoretic appr

Vinil Varghese, Tom Chen, Peter Young

January 2005 **ASP-DAC '05:** Proceedings of the 2005 Asia and South Pacific Design Auton

Publisher: ACM

Full text available: 📄 Pdf (460.86 KB)　　　　　Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 15, Downloads (Overall): 85,

In this paper, a methodology for analyzing closed loop clock distribution and active des active clock distribution and deskewing network is modelled as a closed loop feedback equations. ...

7 Towards geo-spatial hypermedia: Concepts and prototype implementation

Kaj Grønbæk, Peter Posselt Vestergaard, Peter Ørbæk

June 2002 **HYPERTEXT '02:** Proceedings of the thirteenth ACM conference on Hyperte

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Full text available: 📄 Pdf (940.36 KB)　　　　　Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 68, Downloads (Overall): 841

This paper combines spatial hypermedia with techniques from Geographical Informatio services. We describe the Topos 3D Spatial Hypermedia system and how it has been d hypermedia coupling hypermedia ...

Keywords: 3D, GIS, geo-spatial, information management, spatial hypermedia

8 Lowering the barrier to wireless and mobile experimentation
Brian White, Jay Lepreau, Shashi Guruprasad
January 2003 **SIGCOMM Computer Communication Review** , Volume 33 Issue 1
Publisher: ACM
Full text available: Pdf (204.03 KB)   Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 24, Downloads (Overall): 412

The success of *ns* highlights the importance of an infrastructure that enables efficient a
Netbed's automatic configuration and control of emulated and live network environmer
configuring and ...

9 Proceeding of the 18th ACM conference on Information and knowledge managem
David Cheung, Il-Yeol Song, Wesley Chu, Xiaohua Hu, Jimmy Lin
November 2009 **CIKM '09:** Proceeding of the 18th ACM conference on Information and kn
Publisher: ACM
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n

On behalf of the organizing committee, we wholeheartedly welcome you to the ACM Ei
Conference on Information and Knowledge Management (CIKM 2009). We hope this co
and beneficial. CIKM 2009 was originally ...

10 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff W
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM ◆ Request Permissions
Full text available: Pdf (63.03 MB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 136, Downloads (12 Months): 1423, Downloads (Overall)

The graphics processor (GPU) on today's commodity video cards has evolved into an e
processor. The latest graphics architectures provide tremendous memory bandwidth a
with fully programmable vertex ...

11 Implicit-signal monitors
Peter A. Buhr, Ashif S. Harji
November 2005 **Transactions on Programming Languages and Systems (TOPLAS)** ,
Publisher: ACM ◆ Request Permissions
Full text available: Pdf (1.77 MB)   Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 104, Downloads (Overall): 4

An implicit (automatic) signal monitor uses a **waituntil** *predicate* statement to constru
to an explicit-signal monitor using condition variables and **signal/wait** statements for

Keywords: Automatic signal, concurrency, explicit signal, implicit signal, monitor, par

12 System-level power optimization: techniques and tools
Luca Benini, Giovanni de Micheli

April 2000   **Transactions on Design Automation of Electronic Systems (TODAES)**
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (385.22 KB)   Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 59,   Downloads (12 Months): 576,   Downloads (Overall): 4

This tutorial surveys design methods for energy-efficient system-level design. We cons of a hardware platform and software layers. We consider the three major constituents energy, namely computation, ...

13 Communications of the ACM: Volume 52 Issue 4
April 2009   Communications of the ACM
Publisher: ACM
Full text available: 📄 Digital Edition , 📄 Pdf (7.58 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 372,   Downloads (12 Months): 1939,   Downloads (Overall)

14 Interactive sound rendering
Dinesh Manocha, Paul Calamia, Ming C. Lin, Dinesh Manocha, Lauri Savioja, Nicolas Tsing
August 2009   **SIGGRAPH '09:** SIGGRAPH 2009 Courses
Publisher: ACM
Full text available: 📄 Pdf (62.61 MB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 355,   Downloads (12 Months): 355,   Downloads (Overall):

An overview of algorithmic and software technologies related to interactive sound rend three main topics: physically based techniques to synthesize sounds generated from c efficient computation ...

15 Level set and PDE methods for computer graphics
David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004   **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (17.07 MB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 94,   Downloads (12 Months): 957,   Downloads (Overall): 5

Level set methods, an important class of partial differential equation (PDE) methods, d as the level set (iso-surface) of a sampled, evolving nD function. The course begins wi introduces the ...

16 Queue: Volume 6 Issue 4
July 2008   Queue
Publisher: ACM
Full text available: 📄 Digital Edition , 📄 Pdf (6.13 MB) Additional Information: full citation, abstract, index te

Bibliometrics: Downloads (6 Weeks): 36,   Downloads (12 Months): 240,   Downloads (Overall): 5

Flash is growing from mere curiosity to a new tier in the storage hierarchy.

17 Communications of the ACM: Volume 52 Issue 7
July 2009   Communications of the ACM
Publisher: ACM
Full text available: 📄 Digital Edition , 📄 Pdf (7.61 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 491, Downloads (12 Months): 491, Downloads (Overall):

18 Communications of the ACM: Volume 52 Issue 5
May 2009   Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (7.31 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 478, Downloads (12 Months): 1656, Downloads (Overall)

19 Communications of the ACM: Volume 51 Issue 12
December 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (6.91 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 504, Downloads (12 Months): 3097, Downloads (Overall)

20 Investigating a physically-based signal power model for robust low power wireless
Tai Rusak, Philip A. Levis
October 2008 **MSWiM '08:** Proceedings of the 11th international symposium on Modeling,
wireless and mobile systems
Publisher: ACM Request Permissions
Full text available: Pdf (734.24 KB)   Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 55, Downloads (Overall): 71,

We propose deriving wireless simulation models from experimental traces of radio sign
experimental traces have holes due to packet losses, we explore two algorithms for fill
experimental traces. Using completed ...

Keywords: wireless link simulation, wireless sensor networks

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